

This listing of claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1-46. (Cancelled)

47. (Allowed) An isolated nucleic acid which encodes a human presenilin-associated membrane protein (PAMP) as comprising the sequence set forth in SEQ ID NO:14.


48. (Cancelled)

49. (Allowed) The isolated nucleic acid of claim 47, which comprises the ~~a~~ nucleotide sequence ~~encoding human PAMP~~ as set forth in SEQ ID NO:13.

50. (Allowed) A vector comprising the nucleic acid of claim 47, operatively associated with an expression control sequence.

51-55. (Cancelled)

56. (Allowed, Currently Amended) An isolated nucleic acid encoding a mutant ~~PAMP~~ of SEQ ID NO:14, wherein the mutant ~~PAMP~~ has a mutation in an amino acid residue corresponding to an amino acid selected from the group consisting of C230, D336, Y337, and both D336 and Y337, ~~of human PAMP as set forth in SEQ ID NO:14.~~

57. (Allowed) The isolated nucleic acid of claim 56, wherein the mutation is selected from the group consisting of C230A, D336A, Y337A, and {M:\1034\1F812\00053765.DOC  }

both D336A and Y337A.

58. (Allowed, Currently Amended) An isolated nucleic acid encoding a mutant human PAMP ~~less capable than human PAMP as set forth in~~ of SEQ ID NO:14 ~~of interacting with a presenilin protein~~, wherein the mutant PAMP has a deletion of an amino acid sequence corresponding to Δ 312-369 or Δ 312-340 ~~of human PAMP as set forth in SEQ ID NO:14~~.

59. (Allowed) A vector comprising the nucleic acid of claim 56, operatively associated with an expression control sequence.

60. (Previously amended) An isolated cell transfected with the vector of claim 59.

61. (Currently Amended) A method for producing a mutant PAMP of SEQ ID NO:14, which method comprises culturing the cell of claim 60 under conditions that permit expression of the mutant PAMP.

62. (Cancelled)

63. (Currently amended) ~~The~~ An isolated cell comprising the vector of claim ~~52~~ 50, ~~wherein the human PAMP has SEQ ID NO: 14~~.

64. (Cancelled)


65. (Previously amended) A method for producing human PAMP, which method comprises culturing the cell of claim 63 under conditions that permit expression of the human PAMP.

66. (New) A vector comprising the nucleic acid of claim 58,
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operatively associated with an expression control sequence.

67. (New) An isolated cell transfected with the vector of claim 66.

68. (New) A method for producing a mutant of SEQ ID NO:14, which method comprises culturing the cell of claim 67 under conditions that permit expression of the mutant PAMP.

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